Product Data Sheet

Product Name:	TNNI2 Human
Cat. No.:	GP24854
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Troponin I fast skeletal muscle; Troponin I fast-twitch isoform; TNNI2; DA2B; FSSV; fsTnI; AMCD2B.		
Formulation	The protein solution contains 20mM Tris-HCl, 500mM NaCl and 10mM b-ME, pH 7.5.		

Introduction

TNNI2 is a fast-twitch skeletal muscle protein, belongs to the troponin I gene family, and is part of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, together with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. TNNI2 is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. Other than muscle tissues, TNNI2 is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a coactivator of estrogen receptor-related receptor alpha. Furthermore, TNNI2 suppresses tumor growth in human ovarian carcinoma. Mutations in the TNNI2 gene cause myopathy and distal arthrogryposis type 2B.

Stability

TNNI2 Human although stable at 10°C for 7 days, should be stored below -18°C .Please prevent freeze-thaw cycles.

Background

Skeletal isoforms of Troponin I were suggested to be used as markers of acute and chronic skeletal muscle injuries. In skeletal muscles Troponin I is presented by two forms, slow (21.6 kDa) and fast (21.2 kDa) skeletal. The protein (Fast Skeletal Troponin I) migrates on SDS-PAGE to approximately 26.5kDa.

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